



CROSSTALK

News Bulletin of the TRW Amateur Radio Club

Member, American Radio Relay League

FEBRUARY 1987

** FD'71 ** FD'73 ** FD'75 ** FD'76 ** WAS ** WAC **

Garrett/W6TRW Repeater: 145.32/-600(2A-PL) -- UHF: 442.000in/447.000out

CALENDAR FOR FEBRUARY AND MARCH

Wednesday	Each Wednesday, noon	Emergency Communications Team Check-in. 145.32 via repeater and simplex.
Friday	Each Friday, 7-8am	Club Breakfast, S Cafeteria, VERY informal, good breakfast for less than \$2.00!!
Tuesday	Feb 24, noon	Club Meeting. Don't forget - meeting in R2/1055. Tentatively scheduled is a presentation on Search and Rescue.
Saturday	Feb 28, 8-11am	Swap Meet. Corner of Compton/Marine and Aviation, in Manhattan Beach. Seller's lot is directly behind the Standard Station. Sellers please DO NOT arrive before 0700!
Tuesday	Mar 10, after work	Executive Board Meeting. All members are welcome! At Shakey's Manhattan Beach, 2000 N. Sepulveda Blvd., just south of Marine Ave.
Friday	Mar 13, after work	St. Patrick's Day Observance. At Shakey's Pizza Parlor, 5105 Torrance Blvd, between Anza and Palo Verde, 5:30 'til ??? Free beverages and 15% discount on food!!
Tuesday	Mar 31, noon	Club Meeting, R2/1055.
Saturday	Mar 28, 8-11am	Swap Meet.

Fishy Code

The most recent reason why some of our Novices and Techs are having code troubles recently surfaced. This is a story presented at the last Saturday breakfast.

Buck, KB6ACG, went fishing last month at one of his favorite lakes near Portola, CA. Since he was being absent from the code training he promised Joe, WB6SZK, that he would take along his cassette player and keep listening. After he had been fishing several mornings, playing the CW tapes, he headed out early to his favorite spot on the lake and dropped his line. Just as he was about to start the cassette, a fish popped up next to the boat. It was about 15" long. It stood on its tail in the water and sounded "dit dit." Buck really jumped. Then the strangest thing happened. Another fish did the same thing about 40 feet behind the boat. He went ahead and played the tape and fished, but didn't have much luck with either.

The next morning when he got to the fishing hole, they greeted him again with "dit dit dit dit dit." That really shook him up, but he kept on fishing. No luck with the fish and the 10 wpm tape seemed very hard to copy.

The next morning really did it. The fish greeted him at 20 wpm and then went on to have a 20 minute QSO at 20-25 wpm, although they could only stand on their tails for a word or two at a time. This really made him mad and he gave up fishing, came home and hasn't been able to get back to the code since. If you don't believe this ask his XYL, Irene.

Thanks to the Downey ARC newsletter Q5 for this story to stimulate our olfactory glands.

St. Patrick's Day Observance

The day when everyone is Irish and all the leprechauns go about doing their mischievous deeds will soon be upon us. Yes, St. Patrick's Day will soon be here and as an annual event the TRW Amateur Radio Club will celebrate by holding a feast at Shakey's Pizza Parlor, 5105 Torrance Blvd, (on the north side of the street between Anza and Palo Verde Drive) Torrance, on Friday March 13th. It will be held right after work, about 5:30 or so until we eat too much pizza or run out of Club money to buy beverages. Yes!, all of beverages will be free to Club members and one guest and there will be a 15% discount on all food items. So join the fun and the food and the drink and have a good time with the TRW/ARC on Friday March 13th.

New Members - - Old Members

Welcome to the Club:

Ed Hastings, WB6VQH, a ham for 25 years and holder of a Technician class license. An associate member, Ed is also a member of the ARRL and can be heard on the repeater with Bob and Len setting up lunch details!

Julio Urquidi, not yet a ham but a TRW employee who is interested in finding out what it is all about.

Hope to see you both at the next Club meeting. Bill Dews says that badges for Stan, W6EKK; Dale, WA6DLA; Phil, N6PB; Harry, KA6YNK; Ed, WB6VQH and Robert, KB6FVB have been ordered.



TRW ARC to Host 1987 ARRL Networking Conference
Chris Wachs, WA2KDL

On August 29, 1987 the TRW Amateur Radio Club will host the 1987 ARRL Networking Conference in the Building S Forum immediately after the Swap Meet. Amateurs from all over the world will be here (Redondo Beach, CA) to present and hear papers on the latest Amateur Radio digital communications including Packet Radio. This is the seventh conference and the first in Southern California. Speakers will cover all topics of Amateur Radio digital communication. This will also be a good chance to meet the inventors of Packet Radio. There will be an introduction to Packet Radio and speakers to help the newcomer.

I ask that all TRW ARC members attend and make a good showing for the Club. For some reason the world views Packet Radio in Southern California as being behind the times! This is our chance to show they are wrong! If you would like to present a paper or need help preparing one, I will be more than happy to help as will Harold Price, NK6K. We will make sure you use the correct ARRL Digital Networking jargon and make you look like a pro. Hi Hi. See you at the conference and this event may just be bigger than the Swap Meet (is that possible??) in world wide recognition.

Law of Selective Gravity: An object will fall so as to do the most damage.

Jenning's Corollary: The chance of the bread falling with the buttered side down is directly proportional to the cost of the carpet.

From the Library

George Lee, W6IOW

What's new in the February issues of:

QST: Using old QSTs to choose a used HF rig (listing of product reviews).
Monolithic Microwave ICs (listing of devices).
Review of Advanced Receiver Research MML144VVG and MML144VDG Mast Mounted Preamps.
Review of ARR TRS04VD TR Sequencer.

HR: A Packet Radio PSK Modem for JAS-1/F0-12 (Access the world's first flying mailbox with your TNC).
360° Mini MUF Propagation Prediction (on your C-64).
Linear Design by Computer (C64/128 routines determine optimum Class B or C operation).
MMIC Multiplier Chains for 902 MHz band.

CQ: Review of Yaesu Dual Band FT-727R Handheld Transceiver.
Review of the Austin Dual Band 2M & 70 cm Antenna.
The Mobile One (A 13V - 4Amp Supply).
An AR Packet Primer, Part IV - Bulletin Board operation.

73: Secrets of Silent Switching
Shoestring Software (C-64/VIC 20 RTTY Program).
The Talking Teletype (A C-64/VIC 20 Basic RTTY to voice program).
Cosmic QRN (Messages in the noise??).
Review of Icom IC-120 (1.2 GHz FM).
Review of Mirage/KLM 1.2-44LBX (1.2 GHz).
Review of Telex/Hygain OSCAR antenna system.
Review of Kent Morse Key
Review of Sony AIR-8 Scanner.

I would like to thank WA6VJQ, a Club member, for donating issues of QST from 1978 to 1985.

Patton's Law: A good plan today is better than a perfect plan tomorrow.

Non-Reciprocal Laws of Expectations:
Negative expectations yield negative results.
Positive expectations yield negative results.

Novice Enhancement

ARRL Bulletin Nr 13, from ARRL Headquarters, Newington, CT; February 10, 1987

To All Radio Amateurs.

FCC today released the Report and Order in PR Docket 86-161, Novice Enhancement. The rules become effective 0001 UTC March 21, 1987, a Friday night local time. Specific rule changes are:

1. Novices and Technicians may operate 28.1 through 28.5 MHz using CW and digital modes from 28.1 to 28.3 and CW, digital and voice modes from 28.3 to 28.5 MHz. Novice and Technician control operators are limited to 200 watts output in this band, but other licensees are not similarly limited.

2. Novices may use up to 25 watts in the 222.10 through 223.91 MHz band, with all authorized emissions.

3. Novices may use up to 5 watts in the 1270 through 1295 MHz band, with all authorized emissions.

4. No amateur station at which the control operator or station licensee holds a novice class operator license shall be in repeater, auxiliary or beacon operation.

5. Two examiners will be required to administer future novice exams, which shall consist of 30 questions. FCC Form 610 will be revised to provide for certification by two VEs.

6. Present novice and technician licensees are grandfathered into the privileges.

7. Element 3 is divided into two parts, 3A and 3B, with each examination to consist of 25 questions. Present Technician licensees will be given credit for having passed both elements. In the future, upgrades to Technician will only have to pass Element 3A and future Technicians upgrading to General will have to pass both Elements 1B, 13wpm, and Element 3B. The complete text of the new rules will appear in April QST.

The Murphy Philosophy: Smile - tomorrow will be worse.

Field Day 1987

Bill Schrecengost, KE6LB

To get an early start on preparations for Field Day, which annually happens the fourth full weekend of June, we had a kick off meeting Friday 23 Jan 87 at noon in the Building S Cafeteria. Attendees were Carl Kennedy (WB6TDE), Bill Dews (K6AWO), Steve O'Neal (N6CRR), Paul Herbert (KG6CR) and myself. The discussions were far ranging, but did focus in on several problem areas which need to be resolved. The emphasis on this year's Field Day (in order of importance) will be: 1) practice setting up and operating under simulated emergency conditions, 2) train operators and loggers and 3) if all goes well, rank high nationally in total contacts made. Not too many years our Club consistently ranked very high nationally. I think we can get back into that position but we need to get more of our members involved and trained.

We will be using Friendship Park again this year. Friendship Park is on the Palos Verdes Hill overlooking San Pedro and Long Beach Harbor. Our radio stations will be set up in tents and RVs. We will have outdoor BBQ type breakfasts, lunches and dinners. It will be a fun event and I encourage Club members to get involved and set aside June 27th and 28th to join us in Friendship Park. If you would like to get involved early just call me at (53)63316 or drop me a note at M4/2315.

Zymurgy's First Law of Evolving Systems Dynamics: Once you open a can of worms, the only way to re-can them is to use a larger can.

(ed. A few month ago the Crosstalk presented a two part article on the California Earthquake. One suggestion was to get into the schools an set up Amateur Radio stations as part of the Emergency Communications network. Here is how one club found the resources (money) to get something going.)

El Camino - The Dream Continues

In a previous article in Orbit we told you of a dream to have an Amateur Radio Station at El Camino Junior High School in Santa Maria. Jack, WA6WTH and Ed, KB6IOP had the fanciful idea of scraping together some equipment to have a simple Novice station and perhaps interesting a few students in ham radio. But, that dream evolved into a reality far beyond our expectations.

During the 1985-86 school year we wrote a project application for a grant from the California Teachers Instructional Improvement Program (CTIIP). This competitive grant was awarded to us and we were able to make initial purchases for low-band equipment and antennas that permitted operation on all Novice frequencies. Part of the program involved teaching after-school Novice classes and some non-capital expenditures. Most of the school year was consumed with the myriad of purchase orders, budgeting and planning. We did manage to get a class going towards the end of the year with nearly 30 students showing an interest. Our first "graduate" passed the Novice exam in late May and several students are working on material sent home for the summer. We will begin in earnest when school resumes in September.

Early in the school year we heard that General Telephone Company had a competitive grant program called GIFT - "Growth Initiatives for Teachers." This program is a combination funding for capital equipment, non-capital supplies and personal growth. We spent many hours writing a proposal to enhance the school ham station to include VHF and UHF, Packet, RTTY and satellite capability. Our proposal was one of only 48 to be accepted nationwide! By the time school begins in September, the El Camino Amateur Radio station will be one of the finest school stations anywhere. But, the dream does not end there.

During the first week of August, we will be guests of General Telephone Company at their research laboratories in Waltham, Mass. We will be attending seminars and visiting with scientists who are working on communication concepts that reach far into the future. These futuristic communications will affect Amateur Radio, to say the least, and will make world-wide digital voice communication the common mode. Some of the research programs we will visit read like science fiction. We will have reports for you in the ORBIT in a future issue. But, the dream continues...

Early in the 1986-87 school year we will be returning to the East Coast to visit ARRL, AMSAT Headquarters, the Young Astronaut Council, Wayne Green and some schools in New York City that have used ham radio as part of their curriculum for many years. We will gain first-hand experience and in-service opportunities that will be used in our own school station.

When it all comes together and the station is fully assembled, we will be having a open house for the community and especially for area hams. Our final "dream" is to have a station that is a focal point for students to be introduced to the world of high technology and perhaps orient them in a positive direction towards a career. We "dream" also of having instruction in Novice, Tech and General classes and a station available so the new hams can be "Elmered" in.

It is no longer just a dream, but the on going success of the program will involve the amateur community as a whole. We will have more on that at a later time.

Thanks to the September, 1986 Key Klinks of the Santa Barbara ARC who got it from the August, 1986 The Satellite Orbit Newsletter.

Rule of the Great: When someone you greatly admire and respect appears to be thinking deep thoughts, they probably are thinking about lunch.

Barth's Distinction: There are two types of people: those who divided people into two types and those who don't.

Emergency Communications News

Rich Sauer, N6CIZ

This month it's time for good news/bad news. The good news (that I reported last month) is that TRW Security is preparing a disaster recovery plan and that Amateur Radio would play a key role in it. The bad news is that I haven't yet seen a copy of the plan. It is still being reviewed by security and isn't ready for release, even in draft form. So I have no further details to give you. As soon as I know something, you'll know something. Since volunteering for this job, I've learned a lot about Ham Radio and its place in providing emergency communications and I've done a lot of thinking about being prepared. If you have any interest at all in providing a public service, I urge you to look into RACES. The L.A. County Sheriff's Office is really committed to Amateur Radio in a big way. Important work is being done by some dedicated people. Let me know if you're interested and I'll steer you in the right direction.

How prepared are you for a major disaster? The experts are telling us that it's not a matter of IF the big one is going to happen, it's a matter of WHEN. The people and services we all count on for our daily needs are not going to be around. Think about it. No water. No electricity. No phones. Don't count on police or fire departments. You won't be able to get any medical help for a while. (It's estimated that enough people will be seriously injured in the "big one" to fill every bed in every emergency room in the free world). And don't figure on going to the ATM to get cash so you can buy what you need after a major disaster. (The banks are going to have more to worry about than us little guys. A major earthquake in California will have a major adverse effect on the world's economy in a matter of days). If it happens while you're at work, how are you going to get home? Look at what one overturned truck on the freeway does to the commuter traffic. Think of the equivalent of a thousand overturned trucks. If you can't get home for 12 or 24 or 48 hours, what's your family going to do?

It won't happen to you? All of the experts say that it will. Just how prepared are you? Think about it. We hold an informal check-in every Wednesday at noon and I need volunteer control operators. It only takes 15 minutes of your noon hour and it's pretty easy work. Just call for station check-ins and pass any traffic that stations may have. Give me a call or show up on 145.32 at noon on Wednesday and volunteer. Believe me, it's good experience.

The check-ins for January 14th were: N6CIZ (Net Control), K6AWO, W6EKK, W6ZWS, N6JLS, W6IOW, KE6LB, W6IPM, N6MEL and K6RQT. On January 21st: W6ZWS (Randy, Net Control), W6ZVM and N6MZW. For January 28th: N6CIZ (Net Control), K6AWO, W6IOW, W6EKK, W6IPM, KE6LB, N6OQU, W6GPE, WA6ATK, K6ZTI and N6CRR. On February 4th, the check-ins were: N6CIZ (Net Control), WA2KDL and N6AZY at the W6TRW Club Station, N6JLS, K6JJP, K6ZTI, W6EKK, W6IPM and K6AWO. It looks like we're getting great support for the net. Thank you, and keep it up!

Miller's Law: You can't tell how deep a puddle is until you step in it.

The Ordering Principle: Those supplies necessary for yesterday's experiment must be ordered no later than tomorrow noon.

Promoting Science through Amateur Radio

The importance of sparking elementary and junior high students' interest in science and technology cannot be overstated. Otherwise, they may curtail their scientific career by not taking the necessary math and science courses when they reach high school. Amateur radio demonstrations are an effective method for reaching them employing "hands-on" experience. And IEEE volunteers (Life Members in particular) can accomplish this task very well.

Hands-On Technology for Sixth Graders.

Last May, Nancy Tetta's sixth grade class made contact with a couple of hams. The program was given by Jeannine Duane - teacher, licensed amateur radio operator, and New Jersey representative of the NASA Teacher in Space program.

Jeannine Duane began with an overview of amateur radio (basic principles, necessary equipment, licensing procedures, various uses). Then she taught the students to recognize the various sound patterns of morse code as words and eventually sentences. A videotape was presented on the first astronaut (IEEE Senior Member, Owen Garriott) to contact earth from space via amateur radio.

The highlight, however, was when Jeannine Duane "made a connection" on the radio, and the students spoke to ham operators in the Union, New Jersey area. "Bob" and "Dennis" reaffirmed over the air waves the fun and excitement of amateur radio. The benefits are evident by some of the students' reactions provided here:

"I've enjoyed participating in this program and I really hope that we can have another one!"

"Mrs. Duane let us make contact with another amateur radio operator. I loved it! I hope some day I can become a ham radio operator."

"It doesn't matter how old you are to operate a ham radio. You could be 8 years old or 90 years old."

These comments clearly substantiate Educator Nancy Tetta's assertion that, "There are many subtle ways to introduce elementary (and junior high) school students to electronics. First and foremost - always use hands-on exhibits." She added, "Once you interest students in something you've won the first battle."

Format Guidelines

Inspired to inspire young minds about technology? And promote amateur radio? Keep these points in mind when planning your presentation:

1) The presentation generally should not exceed 50 to 60 minutes. An amateur radio presentation might have a 5 minute introduction, 10 minute morse code lesson, 15 minute film, 15 minutes of talking to other hams (set up contacts beforehand) and 5 minutes for questions and closing.

2) Distribute handouts about your topic and, if possible, small mementos.

3) Be sure to consult the school's principal when offering your services.

Note: the American Radio Relay League (ARRL) has available handout materials including "More Decoded," and "Amateur Radio - The World at Your Fingertips." Depending on their supply, they may send only a few pieces, so you will then have to get additional copies made. The ARRL also has films available for loan from your local ARRL Division Director or the ARRL Film Library. The ARRL's address and phone number are:

The American Radio Relay League
225 Main Street
Newington, CT 06111
(203) 666-1541

Truman's Law: If you cannot convince them, confuse them.

Law of the Lost Inch:

In designing any type of construction, no overall dimension can be totaled correctly after 4:40 PM on Friday.

Corollaries:

Under the same conditions, if any minor dimensions are given to sixteenths of an inch, they cannot be totaled at all.

The total will become self-evident at 9:01 AM on Monday.

Tidbits from the Jolly Little S...!

I want to tell all of you that even though this rag has to get out every month and that I have to work my vacation and weekends away around the publication deadlines, I have enjoyed (and I still do) putting out this newsletter. However, a few things have been occurring in my life that are beginning to take a higher priority. Definitely not the least of these is my daughter in whom I derive great pleasure. The little changes that I notice as the days go on give me much joy. Add to that the fact that I have been asked by my Church to accept more responsibility and I am eager to do so and that Manhattan Beach wants to get involved with RACES both through the Police Department and the schools and you can see that my free time is becoming very limited. Lump in the fact that I still have to work for a living and you might wonder when I find time to sleep. Sometimes I wonder myself. So, what am I beating around the bush getting to you ask? I need to relinquish the job of newsletter editor to some new person. I will not dump it on someone, but EVERYONE needs to examine your Club priorities and see if you could pick up the job. It will help a lot if you are comfortable with some word processor and have regular access to a computer you can run it on. The newsletter does not have to be this packed. If typed normally and not reduced on a copier the typing is not that much. And I am willing to help - in any way possible. The sooner I can get someone to help out the easier the transition will be. So think about it and if you feel you can say yes, call me. My number is on the back page under Editor.

I don't know if many of you know about a relatively new publication called Air & Space Smithsonian. There have been only 5 issues so far but the fifth is of special interest to Amateur Radio operators. On page 76 is an article entitled "Homemade Satellites" and it reviews 25 years of Amateur Radio satellites. Featured in the article is Jim McKim, WBCY, whose interest in Amateur Radio allowed him to receive the radio beacon of the first ever satellite, Sputnik. Also featured is Lance Ginner, the builder of OSCAR 1. The article concludes with the launch and first orbit of Fuji OSCAR 12. Written by Nancy Shute, I found it good reading and I highly recommend it.

If you intend to write an article for the Crosstalk, please get it to me sometime well before the deadline. Last month I took the finished newsletter to the printer only to receive in the Monday morning mail delivery three articles for the newsletter. Needless to say you did not see any of them and you won't as they would be dated printing them now. So a word of warning - don't wait until the last minute.

Heller's Law: The first myth of management is that it exists.

Johnson's Corollary: Nobody knows what is going on anywhere within the organization.

H. L. Mencken's Law: Those who can - do. Those who cannot - teach.

Martinson's Extension: Those who cannot teach - administrate.

Wanted - For Sale - Freebies

Wanted: Loan of instruction books on the Icom 290A and Drake MN-2700 Tuner. Please call the Librarian, George Lee at (53)56247.

Cahn's Axiom: When all else fails, read the instructions.

Meskimen's Law: There is never time to do it right, but there is always time to do it over.

Ramblings from "All Washed Out"

Bill Dews, K6AWO

The Club has lost our delegate to the LAACARC. Many of you don't even know what that stands for! (ed. Los Angeles Area Council of Amateur Radio Clubs). All of the clubs in the L. A. area sent a representative once every two months to a council meeting located at the Red Cross Building in L.A. The feedback and get together of the clubs is a very important item to exchange information and solicit help when the job is too big for one club to handle. The council representative brings back information and newsletters to the Executive Board meetings so that we are informed about what is going on. Bill Daley, K6BO, would record the meeting and then transcribe the information which was passed along to the board members and the Crosstalk Editor for use. You don't know the hours he spent (he did enjoy it) to help the Club. It is time for another member to come forward and pick up this position and carry on where "BO" left off after 6 years of service. If you are interested call any of the Club Officers listed on the back page of the newsletter.

Please glance at the back of your new 1987 TRW/ARC membership card. You will find the Club's mailing address. If during the year you want to send in an idea, squawk or whatever, just write it down on anything and send it in to my attention.

The TRW/ARC exchanges newsletters with many clubs in the area and the world and at times the party who receives the newsletter is no longer responsible for getting it to the club officers for their review. It is a good time for some of the other clubs to be sure that we have your correct address so that you are receiving the Crosstalk in a timely manner and you can enjoy the material while it is still fresh.

I wish to apologize to the members who have not received their new membership card on time. The mail room this year has been overloaded and Club mail has the lowest priority. Hence, some of the incoming renewals have been held up and did not get to me in a timely manner. Please be patient and I will get your card to you as soon as I receive your application.

On Friday mornings a few of the Club members get together at the "S Cafe," the Building S Cafeteria for a good Club breakfast. You can eat and drink for about \$2.00. How about it?? A few who were eating and talking recently were K6MAU, K7JAJ, K6GCR, W6EKK, W6IGJ, N6MEL and N6JLS was out sick. Some of the gang wear their Club badge but it is hard to get everyone to remember theirs that early in the morning. We have a good time but you may have to put up with some QRM because hams usually put talking before eating. The time is 7:00 to 8:00++ each Friday and if you need help finding the building just give a shout on 145.32 MHz. See you there.

The Army Axiom: Any order that can be misunderstood has been misunderstood.

Putt's Law: Technology is dominated by two types of people. Those who understand what they do not manage. Those who manage what they do not understand.

Boob's Law: You always find something in the last place you look.

SCHOLARSHIPS

The Dayton Amateur Radio Association is now accepting applications for its annual \$1,000 scholarships. Licensed Amateurs graduating from High School in 1987 are eligible. Please make this known to any amateurs in your area who may qualify. For further information and application forms write:

DARA Scholarships
317 Ernst Avenue
Dayton, Ohio 45405

Murphy's Law of Thermodynamics: Things get worse under pressure.

Johnson and Laird's Law: A toothache tends to start on Saturday night.

Executive Board Meeting 10 Feb 1987

Jim Cox, K7JAJ

The meeting was called to order at 1736 PST by President Chris Wachs, WA2KDL. Eleven voting members were present. A motion was made and seconded, that the Executive Board approve the purchase of rotor cable and accessories to complete the OSCAR installation at the club station. The matter was discussed, the vote was called and it was approved.

Chris then gave his report, including the announcement of approval by the ARRL that the TRW ARC has been selected to be the host for the 1987 Networking Conference, to be held at Space Park on August 29, 1987. Chris has agreed to be the focal point for arrangements for this meeting and will provide a full report on the status at the next EBM.

Vice President Steve O'Neal, N6CRR, reported that the speaker for the next General Meeting was tentative (TBD). A report was given by the Crosstalk Editor, John Keller, N6JLS.

Secretary Jim Cox, K7JAJ, then gave a combined report, including technical and that of the Trustee. Some work must be done on the Two Meter repeater in the near future which will require taking it off the air. It will be replaced by the W6NWP repeater so there will be no interruption in service. Trustee Phil Bergeron, N6P8, reports that the new Club Station License has arrived. Also the new Callbooks which were ordered for the Club station are in place and ready for use.

The Treasurer's report was presented in written form in the absence of the Treasurer. The treasury shows a healthy balance for the beginning of the year.

The Activity Manager's report was given by Jim Wike, W6GPE.

Membership Chairman Bill Dews, K6AWO, reported that there are presently 129 Club members (dues paid for 1987).

The Emergency Coordinator, Rich Sauer, N6CIZ, then reported on the status of the emergency radios. He also reported that there is no change in the status of the emergency communications plan.

The Field Day report was then given by Bill Schrecengost, KE6LB, and Carl Kennedy, W8GTDE, followed by a discussion of activities that should necessarily be accomplished prior to the next Field Day. Bill and Carl will be holding organizational meetings in the near future.

It was observed that the next General Meeting would be held in Building R2, Room 1055, and the meeting was adjourned at 1851.

Airplane Law: When the plane you are on is late, the plane you want to transfer to is on time.